

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of

Joe GRAY et al

Application No.: 08/487,974

Filed: June 7, 1995

For: A METHOD OF DETECTING  
GENETIC TRANSLOCATIONS  
IDENTIFIED WITH  
CHROMOSOMAL ABNORMALITIES  
(as amended)

**BOX AF**

Group Art Unit: 1634

Examiner: A. Marschel

**REPLY & AMENDMENT PURSUANT TO 37 C.F.R. §§1.111, 1.116, & 1.119**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In complete response to the Official Action mailed March 25, 1999, please  
amend the above-cited application as follows:

**IN THE CLAIMS**

Please add the following new claims:

- 162. A method of staining target chromosomal DNA to detect in an  
interphase cell one or more genetic translocations identified with chromosomal  
abnormalities, said method comprising:
- (a) providing a heterogeneous mixture of two or more nucleic acid probes  
having a combined complexity of about 50 kb, which probes contain nucleic acid